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Last updated by author(s):	Jun 11, 2021

Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see our Editorial Policies and the Editorial Policy Checklist.

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For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
n/a Confirmed
The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.
A description of all covariates tested
A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
$ \mathbf{x} $ Estimates of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated
Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.
Software and code
Policy information about <u>availability of computer code</u>

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.

Data

Data collection

Data analysis

Policy information about <u>availability of data</u>

All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets

No software was used for data collection

R 4.0.2 using pheatmap and corrplot packages

Ingenuity Pathway Analysis version 01-19-02

- A list of figures that have associated raw data
- A description of any restrictions on data availability

GraphPad Prism 8

Partek Genomics Suite

 $The data generated in this study have been deposited \textbf{in} the figshare data repository (https://doi.org/10.6084/m9.figshare.14642502). \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027) \\ RNA-Seq data was deposited in NCBI GEO under accession number GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027 (https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE177027 (https://www.ncbi.nlm.nih.gov/$

Field-spe	cific reporting	
Please select the or	ne below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.	
X Life sciences	Behavioural & social sciences Ecological, evolutionary & environmental sciences	
For a reference copy of t	he document with all sections, see nature.com/documents/nr-reporting-summary-flat.pdf	
Life scier	nces study design	
All studies must dis	close on these points even when the disclosure is negative.	
Sample size	wer-analysis, animal group size determined to allow statistical significance with 99% CI for assuming 5-fold difference in virus replication	
Data exclusions	No data was excluded	
Replication	Animal study was done n=4 per group, representing biological replicates.	
Randomization	Animals were randomly assigned to groups. All analysis were performed on data collected from these animals and no additional experiments were performed other than animal experiments	
Blinding	Data acquisition and analysis were blinded.	
Reporting for specific materials, systems and methods We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response. Materials & experimental systems Methods		
Antibodies used	KPL Affinity-purified antibody peroxidase-labeled goat-anti-hamster IgGCat.No. 5220-0371 Lot. 10492253 seracare, GenScript	
Artibodies used	U864YFA140-4/CB2093 NP-1, Vector Laboratories ImPress VR anti-rabbit IgG polymer	
Validation	Each lot is tested to assure specificity and lot-to-lot consistency using an in-house ELISA assay. Reference number: 14-22-06 (https://www.seracare.com/AntiHamster-lgG-HL-Antibody-PeroxidaseLabeled-5220-0371/)	
Eukaryotic co	ell lines	
Policy information a	about <u>cell lines</u>	

Policy information about cell lines	
Cell line source(s)	VeroE6 UNC, Ralph Baric provided. Also available as VERO C1008 from ATCC (CRL-1586, https://www.atcc.org/products/all/crl-1586.aspx)
Authentication	cells were cytochrome B gene sequenced
Mycoplasma contamination	Tested negative
Commonly misidentified lines (See ICLAC register)	No commonly misidentified cell lines were used in the study.

Animals and other organisms

Ethics oversight

Policy information about studies involving animals; ARRIVE guidelines recommended for reporting animal research

Laboratory animals

Syrian Golden hamster, female, 4-6 weeks old, Hsd Han AURA

Wild animals

No wild animals were used in study.

Field-collected samples

No field collected samples were used in the study.

Note that full information on the approval of the study protocol must also be provided in the manuscript.

NIH, NIAID, Rocky Mountain Laboratories ACUC